

National Institute of Neurological Disorders and Stroke

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The nation's leading supporter of biomedical research on disorders of the brain and nervous system

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Repair and Plasticity Cluster**NEURAL PROSTHESIS PROGRAM****Welcome to the Neural Prosthesis Program (NPP) Home Page****Funding Opportunities:**

- [Program Announcement- BIOENGINEERING RESEARCH PARTNERSHIPS, NIH PAR 02-010, Letter of Intent Receipt](#)
Dates: July 12, 2002, August 12, 2002
- [Bioengineering Program Announcements PA-02-012 - Released October 11, 2001: Bioengineering Research Grants \(BRG\)](#)

33rd Neural Prosthesis Workshop Oct. 16-18, 2002

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Current Research Projects**AUDITORY PROSTHESES**

- [Speech Processors for Auditory Prostheses](#)
- [A Central Auditory Prosthesis based on Microstimulation](#)
- [The Neurophysiological Effects of Simulated Auditory Prostheses](#)
- [Effects of Remaining Hair Cells on Cochlear Implant Function](#)

BIOMATERIALS and PACKAGING

- [Hermetic Packages and Feedthroughs For Neural Prostheses](#)
- [Insulating Biomaterials](#)

ELECTRODE DEVELOPMENT

- Micromachined Stimulating Microelectrode Arrays
- Electrodes for Functional Neuromuscular Stimulation
- Thin-Film Recording Electrodes

ELECTRONICS and INTERFACES

- Microstimulators and Microtransducers for FNS
- High Density Percutaneous Connector
- 256- Channel Implantable Stimulator

FUNCTIONAL ELECTRICAL STIMULATION

- Closed Loop Control of Functional Neuromuscular Stimulation
- Sensory Feedback Signals Derived from Afferent Neurons
- Cortical Control of Neural Prostheses
- Standing by Functional Neuromuscular Stimulation

SAFETY AND EFFECTIVENESS

- Protective Effects of Patterned Stimulation
- Safe and Effective Stimulation of Neural Tissue

SPINAL CORD

- Microstimulation of the Sacral Spinal Cord - Mapping
- Microstimulation of the Sacral Spinal Cord - Chronic Stimulation

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Progress Reports

- Listing of available Quarterly Progress Reports

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Publications from NPP Supported Research

- General Reviews
- Auditory Prostheses
- Visual Prostheses
- Motor Prostheses
- Bladder Prostheses
- Diaphragm Pacing

- [Recording Electrodes](#)
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